

# MATERIAL SAFETY DATA SHEET

Review Date: 08/16/2005

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT:** PENNZBELL® AW Hydraulic Oil - All Grades

**MSDS NUMBER:** 613065LU - 1

**PRODUCT CODE(S):** 162530, 162531, 162532, 162533, 162534, 162535, 162540, 1704, 1714, 1724, 1734, 1744, 5037294, 6001, 6004, 6005, 6011, 6014, 6021, 6031, 6044, 6663

**PRODUCT USE:** Hydraulic Oil

### MANUFACTURER

SOPUS Products  
P.O. Box 4427  
Houston, TX. 77210-4427

### TELEPHONE NUMBERS

**Spill Information:** (877) 242-7400  
**Health Information:** (877) 504-9351  
**MSDS Assistance Number:** (877) 276-7285

## SECTION 2 PRODUCT/INGREDIENTS

### INGREDIENTS

	CAS#	CONCENTRATION
Hydraulic Oil		
Highly refined petroleum oils	Mixture	90 - 99 %weight
Additives (contains <1% zinc)	Mixture	1 - 5 %weight

## SECTION 3 HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**Appearance & Odor:** Amber, clear liquid. Mild odor.

**Health Hazards:** No known immediate health hazards. High-pressure injection under the skin may cause serious damage.

**Physical Hazards:** No known physical hazards.

**NFPA Rating (Health, Fire, Reactivity):** 0, 1, 0

**Hazard Rating:** Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4

**Route(s) of Exposure:** Eye, Skin

### Inhalation:

Inhalation of vapors (generated at high temperatures only) or oil mist may cause mild irritation of the nose, throat, and respiratory tract.

### Eye Irritation:

Lubricating oils are generally considered no more than minimally irritating to the eyes.

**Skin Contact:**

May cause slight irritation of the skin. If irritation occurs, a temporary burning sensation and minor redness and/or swelling may result. Release of the material during high-pressure applications may result in injection under the skin causing possible extensive tissue damage which is difficult to heal. Other adverse effects not expected from brief skin contact.

**Ingestion:**

Lubricating oils are generally no more than slightly toxic if swallowed.

**Other Health Effects:**

Material may release hydrogen sulfide (H<sub>2</sub>S), a highly toxic and extremely flammable gas, when heated to 180 Degrees F or higher. H<sub>2</sub>S can cause irritation of the eyes and respiratory tract, headache, dizziness, nausea, vomiting, diarrhea, and pulmonary edema. The odor ("rotten egg") threshold is 0.02 ppm. Do not depend on sense of smell for warning; H<sub>2</sub>S rapidly deadens the sense of smell.

**Signs and Symptoms:**

Irritation as noted above. Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection.

**Aggravated Medical Conditions:**

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.

For additional health information, refer to section 11.

**SECTION 4****FIRST AID MEASURES****Inhalation:**

If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

**Skin:**

Remove contaminated clothing and shoes and wipe excess from skin. Flush skin with water, then wash with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. If material is injected under the skin, transport to the nearest medical facility for additional treatment. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

**Eye:**

Flush with water. If irritation occurs, get medical attention.

**Ingestion:**

Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical attention. Have victim rinse mouth out with water, then drink sips of water to remove taste from mouth. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

**Note to Physician:**

In general, emesis induction is unnecessary in high viscosity, low volatility products such as oils and greases.

**SECTION 5****FIRE FIGHTING MEASURES**

**Flash Point [Method]:** >400 °F/>204.44 °C [Cleveland Open Cup]

**Upper Flammability Limit:** Not Determined

**Lower Flammability Limit:** Not Determined

**Extinguishing Media:**

Material will float and can be re-ignited on surface of water. Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO2) to extinguish flames. Do not use a direct stream of water.

**Fire Fighting Instructions:**

Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus. This material is non-flammable.

**Unusual Fire Hazards:**

Material may ignite when preheated.

**SECTION 6****ACCIDENTAL RELEASE MEASURES****Protective Measures:**

May burn although not readily ignitable.

Wear appropriate personal protective equipment when cleaning up spills. Refer to Section 8.

**Spill Management:**

FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

Place in container for proper disposal.

**Reporting:**

CERCLA: Product is covered by EPA's Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) petroleum exclusion. Releases to air, land, or water are not reportable under CERCLA (Superfund).

CWA: This product is an oil as defined under Section 311 of EPA's Clean Water Act (CWA). Spills into or leading to surface waters that cause a sheen must be reported to the National Response Center, 1-800-424-8802.

**SECTION 7****HANDLING AND STORAGE****Precautionary Measures:**

Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet. Launder contaminated clothing before reuse. Properly dispose of contaminated leather articles such as shoes or belts that cannot be decontaminated. Avoid heat, open flames, including pilot lights, and strong oxidizing agents. Use explosion-proof ventilation to prevent vapor accumulation. Ground all handling equipment to prevent sparking.

Material may release hydrogen sulfide (H2S), a highly toxic and extremely flammable gas, when heated to 180 Degrees F or higher. H2S may collect in the headspace of the container.

**Storage:**

Do not store in open or unlabeled containers. Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

**Container Warnings:**

Keep containers closed when not in use. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

<b>SECTION 8</b>	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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Chemical	Limit	TWA	STEL	Ceiling	Notation
Oil mist, mineral	ACGIH TLV	5 mg/m3	10 mg/m3		
Oil mist, mineral	OSHA PEL	5 mg/m3			

Decomposition Product	Limit	TWA	STEL	Ceiling	Notation
Hydrogen sulfide	ACGIH - TLV	10 ppm	15 ppm		
Hydrogen sulfide	OSHA - PEL_IS	10 ppm	15 ppm		

Decomposition Product	Method	Condition
Hydrogen sulfide	Thermal	> 180 Degrees F.

<b>Exposure Controls</b>
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Provide adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Eye washes and showers for emergency use.

<b>Personal Protection</b>
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Personal protective equipment (PPE) selections vary based on potential exposure conditions such as handling practices, concentration and ventilation. Information on the selection of eye, skin and respiratory protection for use with this material is provided below.

**Eye Protection:**

Chemical Goggles - If liquid contact is likely., or Safety glasses with side shields

**Skin Protection:**

Use protective clothing which is chemically resistant to this material. Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other items. The selection(s) should take into account such factors as job task, type of exposure and durability requirements.

Published literature, test data and/or glove and clothing manufacturers indicate the best protection is provided by:  
Neoprene, or Nitrile Rubber

**Respiratory Protection:**

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

Types of respirator(s) to be considered in the selection process include:

For Mist: Air Purifying, R or P style NIOSH approved respirator.

For Vapors: Air Purifying, R or P style prefilter & organic cartridge, NIOSH approved respirator. Self-contained breathing apparatus for use in environments with unknown concentrations or emergency situations.

<b>SECTION 9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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**Appearance & Odor:** Amber, clear liquid. Mild odor.  
**Substance Chemical Family:** Lubricants  
**Physical State:** Liquid

<b>Flash Point</b>	> 400 °F [Cleveland Open Cup]	<b>Pour Point</b>	-5 °F - -20 °F
<b>Specific Gravity</b>	0.87 - 0.88	<b>Viscosity</b>	> 25 cSt @ 40 °C

**Odor Threshold:** Not Determined  
**Partition Coefficient:** Not Determined  
**pH:** Not Determined

<b>SECTION 10</b>	<b>REACTIVITY AND STABILITY</b>
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**Stability:**  
 Material is stable under normal conditions.

**Conditions to Avoid:**  
 Avoid heat and open flames.

**Materials to Avoid:**  
 Avoid contact with strong oxidizing agents.

**Hazardous Decomposition Products:**  
 Thermal decomposition products are highly dependent on combustion conditions. A complex mixture of airborne solids, liquids and gases will evolve when this material undergoes pyrolysis or combustion. Aldehydes, Carbon Monoxide, Carbon Dioxide, Hydrogen Sulfide, Ketones and other unidentified organic compounds may be formed upon combustion.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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**Acute Toxicity**

TEST	Result	OSHA Classification	Material Tested
Dermal LD50	>5.0 g/kg(Rabbit)	Non-Toxic	Based on components(s)
Oral LD50	>5.0 g/kg(Rat)	Non-Toxic	Based on components(s)

**Carcinogenicity Classification**

Chemical Name	NTP	IARC	ACGIH	OSHA
Hydraulic Oil	No	Not Reviewed	No	No

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
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**Environmental Impact Summary:**

There is no ecological data available for this product. However, this product is an oil. It is persistent and does not readily biodegrade. However, it does not bioaccumulate.

**SECTION 13 DISPOSAL CONSIDERATIONS**

**RCRA Information:**

Under RCRA, it is the responsibility of the user of the material to determine, at the time of the disposal, whether the material meets RCRA criteria for hazardous waste. This is because material uses, transformations, mixtures, processes, etc. may affect the classification. Refer to the latest EPA, state and local regulations regarding proper disposal.

**SECTION 14 TRANSPORT INFORMATION**

**US Department of Transportation Classification**

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

**Oil:** This product is an oil under 49CFR (DOT) Part 130. If shipped by rail or highway in a tank with a capacity of 3500 gallons or more, it is subject to these requirements. Mixtures or solutions containing 10% or more of this product may also be subject to this rule.

**International Air Transport Association**

Not regulated under IATA rules.

**International Maritime Organization Classification**

Not regulated under International Maritime Organization rules.

**SECTION 15 REGULATORY INFORMATION**

**Federal Regulatory Status**

**OSHA Classification:**

Product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200, because it carries the occupational exposure limit for mineral oil mist.

**WHMIS Classification:** Not a controlled substance.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**Ozone Depleting Substances (40 CFR 82 Clean Air Act):**

This material does not contain nor was it directly manufactured with any Class I or Class II ozone depleting substances.

**Superfund Amendment & Reauthorization Act (SARA) Title III:**

There are no components in this product on the SARA 302 list.

**SARA Hazard Categories (311/312):**

Immediate Health	Delayed Health	Fire	Pressure	Reactivity
NO	NO	NO	NO	NO

**SARA Toxic Release Inventory (TRI) (313):**

There are no components in this product on the SARA 313 list.

**Toxic Substances Control Act (TSCA) Status:**

All component(s) of this material is(are) listed on the EPA/TSCA Inventory of Chemical Substances.

**Other Chemical Inventories:**

Component(s) of this material is (are) listed on the Australian AICS, Canadian DSL, European EINECS, Korean Inventory,

**State Regulation**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**SECTION 16 OTHER INFORMATION**

**Revision#:** 1  
**Revision Date:** 08/16/2005  
**Review Date:** 08/16/2005  
**Revisions since last change (discussion):**

**SECTION 17 LABEL INFORMATION**

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT. THIS LABEL COMPLIES WITH THE REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FOR USE IN THE WORKPLACE. THIS LABEL IS NOT INTENDED TO BE USED WITH PACKAGING INTENDED FOR SALE TO CONSUMERS AND MAY NOT CONFORM WITH THE REQUIREMENTS OF THE CONSUMER PRODUCT SAFETY ACT OR OTHER RELATED REGULATORY REQUIREMENTS.

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**PENNZBELL® AW Hydraulic Oil - All Grades**

**ATTENTION!**

**PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE OIL ACNE OR DERMATITIS. HIGH-PRESSURE INJECTION UNDER SKIN MAY CAUSE SERIOUS DAMAGE.**

**Precautionary Measures:**  
Avoid prolonged or repeated contact with eyes, skin and clothing. Avoid breathing of vapors, fumes, or mist. Use only with adequate ventilation. Wash thoroughly after handling.

**FIRST AID**

**Inhalation:** If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give 100%

oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

**Skin Contact:** Remove contaminated clothing and shoes and wipe excess from skin. Flush skin with water, then wash with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. If material is injected under the skin, transport to the nearest medical facility for additional treatment. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

**Eye Contact:** Flush with water. If irritation occurs, get medical attention.

**Ingestion:** Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Have victim rinse mouth out with water, then drink sips of water to remove taste from mouth.

## **FIRE**

**In case of fire,** Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames. Do not use a direct stream of water. Material will float and can be re-ignited on surface of water.

## **SPILL OR LEAK**

Dike and contain spill.

FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

CONTAINS: Highly refined petroleum oils, Mixture; Additives (contains <1% zinc), Mixture

**NFPA Rating (Health, Fire, Reactivity):** 0, 1, 0

## **TRANSPORTATION**

### **US Department of Transportation Classification**

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

**Oil:** This product is an oil under 49CFR (DOT) Part 130. If shipped by rail or highway in a tank with a capacity of 3500 gallons or more, it is subject to these requirements. Mixtures or solutions containing 10% or more of this product may also be subject to this rule.

**CAUTION:** Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flames or heat. Keep container closed and drum bungs in place.

### **Name and Address**

SOPUS Products  
P.O. Box 4427  
Houston, TX 77210-4427

<b>ADMINISTRATIVE INFORMATION</b>	
<b>MANUFACTURER ADDRESS:</b>	SOPUS Products, P.O. Box 4427, Houston, TX. 77210-4427

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